SONY VAIO

VGN-FE590 BTO Series
VAIO® FE Series Notebook PC

Powerful entertainment and computing performance.

CUTTING-EDGE PERFORMANCE
The VAIO® FE Notebook features an optional Intel® Core™ processor for outstanding multi-tasking performance. It also boasts hardware solutions to power you through your most demanding tasks, including a super-fast 5400rpm Serial ATA hard drive and advanced DDR2 memory for ultra high-speed computing with low power consumption.

EXCEPTIONAL LCD TECHNOLOGIES
The VAIO® FE Notebook features a wider, brighter 15.4" widescreen display [11] with XBRITE HiColor™ LCD technology, Sony's most advanced display technology yet. The wider screen optimizes workspace for applications such as Excel® and Outlook®, while presentations come across with dazzling clarity.

CONNECTIVITY FOR ALL YOUR NEEDS
The VAIO® FE Notebook supports ExpressCard™, an emerging standard in smaller, faster PC card solutions. The VAIO FE also includes S-video, enabling convenient connectivity to TVs, cameras, projectors and more, while integrated 802.11 a/b/g/ wireless LAN[3] and optional Bluetooth® technology [5] make it possible for you to easily connect to a broad range of networks and peripherals both inside and outside of the office.

VISUAL COMMUNICATION
Keeping in touch has never been easier. The VAIO® FE Notebook features an optional integrated camera with zoom utility and microphone so you can easily video-conference[12], chat and video mail with co-workers, family, and friends.

The VAIO® FE Notebook, combining cutting-edge performance with ample workspace in a slim, lightweight design. With an optional Intel® Core™ Duo processor, a stunning 15.4" widescreen display [11] with XBRITE HiColor™ LCD Technology and flexible hardware options, it adapts to your business needs the way you need it to.

like.no.other™

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Specifications

General

Computer Type: Notebook
Type of Use: Portable
Action Buttons: S1, S2 (programmable), Volume and Mute
Keyboard: QWERTY, 86 keys with 2.5mm stroke and 19.05mm pitch
Pointing Device: Electro-Static touch pad

Hardware

Docking Station: Docking station connector
Camera: Built-in Camera and Microphone[12] or none

Processor

Type: Intel® Core™ Duo Processor T2600 (Configuration 1), Intel® Core™ Duo Processor T2500 (Configuration 2), Intel® Core™ Duo Processor T2400 (Configuration 3), Intel® Core™ Duo Processor T2300 (Configuration 4), Intel® Core™ Solo Processor T1300 (Configuration 5)
Speed: 2.16GHz[1] (with Configuration 1), 2GHz[1] (with Configuration 2), 1.83GHz[1] (with Configuration 3), 1.66GHz[1] (with Configuration 4), 1.66GHz[1] (with Configuration 5)
Front Side Bus Speed: 667MHz
L2 Cache: 2MB (all Configurations)
Technology: Intel® Dual Core/Intel® Centrino® Mobile Technology

Memory

Type: DDR2
Installed: 2GB (1GBx2) (Configuration 1), 1GB (512MBx2) (Configuration 3), 512MB (512MBx1) (Configuration 4) (PC2-4200)
Maximum: 2GB
Speed: 533MHz

Hard Drive

Capacity: 120GB[2] (Configuration 2), 100GB[2] (Configuration 3), 80GB[2] (Configuration 4), 60GB[2] (Configuration 5), 40GB[2] (Configuration 6)
Speed: 4200rpm (with Configuration 1), 5400rpm (with Configuration 2 - 6)
Interface: Serial ATA

Optical Drive #1

DVD+R DL Write: 4x (max.) DVD+R Double Layer / DVD±RW
DVD+R Write: 8x (max.) DVD+R Double Layer / DVD±RW
DVD+RW Write: 8x (max.) DVD+R Double Layer / DVD±RW
DVD-R Write: 8x (max.) DVD+R Double Layer / DVD±RW Drive[4]
DVD-RW Write: 6x (max.) DVD+R Double Layer / DVD±RW Drive[4]
CD-R Write: 24x (max.) DVD+R Double Layer / DVD±RW Drive, or 24x (max.) CD-RW/DVD-ROM Combo Drive
CD-RW Write: 16x (max.) DVD+R Double Layer / DVD±RW Drive or 16x (max.) CD-RW/DVD-ROM Combo Drive
DVD±RW: Yes[4]
Not available with CD-RW Drive
CD Read: 24x (max.) DVD+R Double Layer / DVD±RW Drive or 24x (max.) CD-RW/DVD-ROM Combo Drive
DVD Read: 8x (max.) DVD+R Double Layer / DVD±RW Drive or 8x (max.) CD-RW/DVD-ROM Combo Drive

Expansion Slots

Multimedia Card Reader: Memory Stick Duo™ media with MagicGate™ functionality, ExpressCard™/34 Slot, PCMCIA - Type II/Type I card slot with CardBus support

Audio

Sound System: Sony® Sound Reality™ - Audio Enhancer

Display

Screen or Display Technology: WXGA LCD
Screen Size: 15.4"[11]
Resolution: 1280 x 800
XBRITE HiColor™ Technology: Yes

Graphics

Processor: NVIDIA® GeForce™ Go 7400 or Intel® Graphics Media Accelerator 950
Video RAM: 256MB [dynamically allocated (RAM/Video) memory] or 128MB [dynamically allocated shared (RAM/Video) memory]
Technology: TurboCache™[13] (with NVIDIA® GeForce™ Go 7400)
Chipset: Intel® 945PM or Intel® 945GM
Interface: VGA Out with Smart Display Sensor

Inputs and Outputs

Headphone Jack: 1
i.LINK® Interface: 1(4-pin)[6]
Memory Stick® Media Slot: 1
Microphone Input: 1
S-Video Output(s): 1
USB Port(s): 3 (2.0 compliant)
VGA Output(s): 1

Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)
Ethernet Speed: 10Base-T/100Base-TX
Modem Type: Integrated V.90 Modem (RJ-11)
Wireless LAN: Intel® PRO/Wireless 3945ABG Network Connection (802.11a/b/g)[3]
Bluetooth® Technology: Integrated Bluetooth® Technology[13] or none

Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPS2B)
Estimated Battery Life: 2.0-4.0 hours[7] (Standard Battery)
Power Requirements: 110W+10%

Software

Operating System: Microsoft® Windows® XP XP Professional with SP2
Internet Services: America Online® 180-Day Trial - New Users Only
Anti-Virus and Recovery Software: Norton® Internet Security™ 60-Day Subscription, TrendMicro™ Anti-Spyware 30-Day Trial, VAIO® Security Center, VAIO® Update software, VAIO® Recovery Wizard software, VAIO® Support Central
Supplied Software: Adobe® Photoshop® Album Starter Edition
Intuit® Quicken® 2006 New User Edition (previous Quicken users may require additional upgrade)
InterVideo® WinDVD®
Microsoft® Works 8.5 60-Day Trial Version of Microsoft® Office 2003[10] (Small Business Edition)
Roxio® DigitalMedia SE (not available on Combo drive)

Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[9]
Limited Warranty and Onsite Service: 1 Year Limited Warranty with Onsite Service[8]
Online and Email Support: Support available from http://www.esupport.sony.com

Dimensions

Weight: 6.17 lbs. with standard battery (weight is approximate and may vary)
Measurements: 14.41"(W) x 1.02"-1.39"(H) x 10.81"(D)

Supplied Accessories

Standard Lithium-ion battery (VGP-BPS2B)
AC adapter (VGP-AC19V11)
Memory Card Adapter (VGP-MCA20)
Power Cord

Optional Accessories

Multi Function Docking Station (VGP-PRFE1)
Multi Function Bay Drive, 4 USB 2.0, GB Ethernet, DVI-D, VGA out, RCA Video out, S-Video out and Kensington lock
DVD R Double Layer/DVD±RW Drive[4] Bay Unit (VGP-DRWBX1)
CD-RW/DVD-ROM Bay Unit (VGP-CRWBX1)
80GB[2] HDD Bay Unit (VGP-HDBX08A)
Additional Standard Capacity Battery (VGP-BPS2C)
Large Capacity Battery (VGP-BPL2C)
AC Adapter (VGP-AC19V10)
1GB Memory Expansion Module (VGP-MM1GA)
512MB Memory Expansion Module (VGP-MM512M)
Battery Charger (VGP-BC1)

Color: White

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires compatible wireless LAN access point, sold separately. Internet connection may require fees.
4. DVD Media/Formats are not universally compatible.
5. Interoperability among Bluetooth® devices varies.
6. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
7. Estimated battery life. Actual battery life may vary on usage.
8. When available, Sony will provide Onsite Service in fulfillment of its limited warranty obligations. Any such services are subject to the terms and conditions of the limited warranty. See actual Limited Warranty for details. Onsite Service will be provided via third-party technician to be dispatched as needed following phone-based troubleshooting. Some repairs may be accomplished with self repair kits. Onsite Service may not be available in all locations.
9. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
10. The Microsoft Office 2003 60-Day Trial software is intended for evaluation purposes only. This trial software is installed on your system and you must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-use options and operations.
11. Viewable area measured diagonally.
12. Broadband Internet service required along with third-party services which may require a subscription fee or other service fee.
13. NVIDIA® TurboCache™ technology combines the size and bandwidth of video memory and dynamically available system memory for optimal system performance.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice. Non-metric weights and measurements are approximate.

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